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=> FILE REG
FILE 'REGISTRY' ENTERED ON 22 SEP 2009
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2009 American Chemical Society (ACS)
=> D HIS
     FILE 'HCAPLUS' ENTERED ON 22 SEP 2009
           9120 S TAKEI ?/AU
L1
L2
           760 S SAKAIDA ?/AU
L3
           1668 S SHINJO ?/AU
L4
            12 S L1 AND L2 AND L3
L5
         23538 S DEXTRIN#
L6
              4 S L1 AND L2 AND L3 AND L5
     FILE 'REGISTRY' ENTERED ON 22 SEP 2009
L7
             1 S 9004-53-9
L8
             1 S 7585-39-9
     FILE 'HCA' ENTERED ON 22 SEP 2009
L9
           453 S (L7/D OR L7/DP OR L8 OR L8/DP) (L) ESTER?
L10
             31 S (L7/D OR L7/DP OR L8 OR L8/DP) (L) (BENZOAT? OR ACETONOAT
L11
           7812 S DAMASCEN?
L12
         19553 S PAG OR PAGS OR PHOTOACID? OR PHOTOGENERA? OR PHOTO(2A)(
L13
         149409 S LITHO? OR PHOTOLITHO? OR CHROMOLITHO?
T.14
         228352 S PHOTORESIST? OR RESIST OR RESISTS OR PHOTOMASK? OR MASK
L15
              1 S (L9 OR L10) AND L11
L16
              1 S (L9 OR L10) AND L12
L17
             6 S (L9 OR L10) AND L13
L18
              4 S (L9 OR L10) AND L14
     FILE 'HCA' ENTERED ON 22 SEP 2009
L19
              2 S (DEXTRIN#(2A)BENZOAT?)/IT
               E COATING(S)/CV
          43478 S E3 OR E7
L20
               E COATING MATERIALS/CV
         341725 S E3
               E COATING PROCESS/CV
T-2.2
         171819 S E3
L23
         345291 S CROSSLINK? OR CROSS?(2A)LINK?
L24
             9 S (L9 OR L10) AND (L20 OR L21 OR L22)
L25
             14 S (L9 OR L10) AND L23
    FILE 'LREGISTRY' ENTERED ON 22 SEP 2009
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E DEXTRIN/CN
L26
             1 S E3
              E B-CYCLODEXTRIN/CN
             1 S E3
              E ACETIC ACID/CN
L28
             1 S E3
              E PROPANOIC ACID/CN
L29
             1 S E3
              E BUTANOIC ACID/CN
L30
             1 S E3
               E ISOBUTANOIC ACID/CN
L31
             1 S E3
              E FORMIC ACID/CN
L32
             1 S E3
             E BENZOIC ACID/CN
L33
             1 S E3
L34
             0 S 9004-53-9/CRN
L35
            15 S 7585-39-9/CRN
L36
             6 S L28-L33
               SEL L36 1-6 RN
               EDIT E1-E6 /BI /CRN
L37
           243 S E1-E6
    FILE 'REGISTRY' ENTERED ON 22 SEP 2009
           239 S L34
L38
L39
          8754 S L35
L40
          51495 S L37
L41
            78 S (L38 OR L39) AND L40
    FILE 'HCA' ENTERED ON 22 SEP 2009
L42
           141 S L41
L43
             9 S L42 AND (L11-L14 OR L20 OR L21 OR L22)
L44
             4 S L42 AND L23
L45
            22 S L15 OR L16 OR L17 OR L18 OR L24 OR L43
L46
            13 S (L25 OR L44) NOT L45
L47
           13 S 1808-2003/PY, PRY, AY AND L45
L48
            6 S 1808-2003/PY, PRY, AY AND L46
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# => FILE HCA

FILE 'HCA' ENTERED ON 22 SEP 2009

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

### => D L47 1-13 BIB ABS HITSTR HITIND RE

L47 ANSWER 1 OF 13 HCA COPYRIGHT 2009 ACS on STN

AN 147:523534 HCA Full-text

TI Articles having a polymer grafted cyclodextrin

IN Wood, Willard E.; Bohrer, Timothy H.; Kellenberger, Stanley R.; Beaverson, Neil J.

PA USA

SO U.S. Pat. Appl. Publ., 53pp., Cont.-in-part of U.S. Ser. No. 429,579.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 3

r AIV • V	PATENT NO.			KIN	D -	DATE			APPLICATION NO.			ION I	D.	ATE				
PI	US	2007	- 0264:	520		A1		2007	1115		US	20	007-	7611	05		2	00706
	US	2004	0110	901		A1		2004	0610		US	20	< 003-	6722	97			00309
		7166	c ===			20		0007	0123				<				2	9
		1921				A2			0514		EP	20	JU 7	1198	18		2	00401 9
	EP	1921																
		R:							DE,									
				IT, YU,		LU,	MC,	NL,	PT,	RO,	SI	Ξ,	SI,	SK,	TR,	AL,	BA,	HR,
	US	2006	0205	873		A1		2006	0914		US	20	06-	4295	79			
																	0	00605 5
													<					
PRAI	US	2002	-432	523P		P		2002	1210	<-	-							
	US	2003	-672	297		A3		2003	0925	<-	-							
	US	2006	-429	579		A2		2006	0505									
	EP	2004	-193	5		А3		2004	0129									

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB Durable and disposable articles are provided which include a

thermoplastic polymer compn., which includes a blend of a polymer and

a modified polymer. The modified polymer has covalently bonded pendant substituents derived from cyclodextrin. The articles can be a films, coatings, nonwoven webs, or monolithic articles. An article can have the polymer compn. as one part of the article, such as in one distinct area of the article, or on the surface of the article, for example as a coating or surface film. The article can be, for example, a multilayer barrier film, a nonwoven sheet or pad, an absorbent article, or a storage container.

II 7585-39-9DP,  $\beta$ -Cyclodextrin, esters with

maleic anhydride copolymer blends

(polyolefin blends; resin blends contg. cyclodextrin-modified polymers and their use in coating, films, nowoven frabrics, packaging materials)

RN 7585-39-9 HCA

CN β-Cvclodextrin (CA INDEX NAME)

```
INCL 428606000; 427385500; 428220000; 428077000; 442334000; 442351000;
     442401000; 525231000; 525240000; 525055000
    38-3 (Plastics Fabrication and Uses)
    Section cross-reference(s): 40, 42
IΤ
    Absorbents
    Beverages
    Bottles
      Coating materials
    Food
    Fuel tanks
    Laminated materials
    Microfibers
    Nonwoven fabrics
    Packaging materials
    Plastic films
    Sealing compositions
        (resin blends contq. cyclodextrin-modified polymers and their use
        in coating, films, nowoven frabrics, packaging materials)
    7585-39-9DP, β-Cyclodextrin, esters with
TΤ
    maleic anhydride copolymer blends 10016-20-3DP,
     α-Cyclodextrin, esters with maleic anhydride copolymer blends
     854053-02-4DP, Plexar PX 5125, esters with cyclodextrin
        (polyolefin blends; resin blends contq. cyclodextrin-modified
       polymers and their use in coating, films, nowoven frabrics,
       packaging materials)
             THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1
OSC.G
             CITINGS)
1.47 ANSWER 2 OF 13 HCA COPYRIGHT 2009 ACS on STN
    143:31894 HCA Full-text
AN
TI Dextrin fatty acid esters as oil gelling agents, their preparation,
    and oil gels and cosmetics containing the gelling agents
IN
    Tsukioka, Daisuke; Suzuki, Takanao
PA Chiba Seifun Co., Ltd., Japan
    Jpn. Kokai Tokkvo Koho, 25 pp.
SO
    CODEN: JKXXAF
DT
    Patent
LA
    Japanese
FAN.CNT 1
    PATENT NO.
                       KIND DATE
                                       APPLICATION NO.
                                                            DATE
PT JP 2005145851
                     A 20050609 JP 2003-383591
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200311

JP 4079371 PRAI JP 2003-383591 OS MARPAT 143:31894 GI B2 20080423 20031113 <-- <--

R1 R2

AB Dextrin fatty acid esters, which satisfy (1) av. polymn. degree of monosaccharides is 10-150, (2) av. acyl group substitution degree ≥1.0 per glucose unit, and (3) acyl groups are C12-22 linear satd. acyl, C4-26 branched acyl, C6-30 unsatd. acyl and/or C2-11 linear satd. acvl and ≥50% of the constituent acvl groups is C12-22 linear satd. acyl, are prepd. by esterifying dextrin with fatty acid halides or acid anhydrides in the presence of pyridine derivs. I (R1 = Me, Et, CO2H, CO2Me, CONH2, NMe2; R2 = H, Me). Also claimed are oil gels and cosmetics contg. the oil gelling agents. The oil gelling agents are odorless, dissolve oils well and provide oil gels and cosmetics with no undissolved matters. Thus, palmityl chloride was added dropwise to a dispersion of dextrin and 3-methylpyridine at 50° over 30 min and the reaction mixt. was heated at 90° for 4 h to give dextrin palmitate (II) with av. acyl substitution degree 2.1 per glucose 2.1. A lipstick, lithog. inks, etc., contq. II were also formulated.

IT 852988-84-2P

(esterification of dextrin with acyl halides or acid anhydrides using substituted pyridines and use of the esters as oil gelling agents for cosmetics, etc.)

RN 852988-84-2 HCA

CN Dextrin, acetate hexadecanoate (9CI) (CA INDEX NAME)

CM

CRN 9004-53-9 CMF Unspecified

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CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2
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CRN 64-19-7

CMF C2 H4 O2

но\_ С\_ снз

CM 3

CRN 57-10-3 CMF C16 H32 O2

HO2C- (CH2)14-Me

- IC ICM A61K007-00 ICS A61K007-025; A61K007-032; A61K007-035; A61K007-48; C08B030-18; C08K003-00
- CC 62-4 (Essential Oils and Cosmetics) Section cross-reference(s): 33, 42

IT Inks

(lithog.; esterification of dextrin with acyl halides or acid anhydrides using substituted pyridines and use of the esters as oil gelling agents for cosmetics, etc.)

IT Coating materials

(oil-based; esterification of dextrin with acyl halides or acid anhydrides using substituted pyridines and use of the esters as oil delling agents for cosmetics, etc.)

IT 98-92-0P, Nicotinamide 93792-77-9P, Dextrin myristate 112444-74-3P, Dextrin behenate 183387-52-2P, Dextrin 2-ethylhexanoate palmitate 260357-37-7P, Dextrin isostearate palmitate 852988-82-0P 852988-83-1P 852988-84-2P

(esterification of dextrin with acyl halides or acid anhydrides using substituted pyridines and use of the esters as oil gelling agents for cosmetics, etc.)

L47 ANSWER 3 OF 13 HCA COPYRIGHT 2009 ACS on STN

AN 142:454330 HCA Full-text

- $\ensuremath{\text{TI}}$  Composition for forming underlying film containing dextrin ester compound
- IN Takei, Satoshi; Sakaida, Yasushi; Shinjo, Tetsuya
- PA Nissan Chemical Industries, Ltd., Japan

SO PCT Int. Appl., 34 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.	CNT 1				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PΙ	WO 2005043248	A1	20050512	WO 2004-JP16129	
					200410
					29

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

<--

RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

GW, ML, MR, NE, SN, TD, TG EP 1681594 A1 20060719 EP 2004-817421

29 <--EP 1681594 20090513 В1 DE, FR, GB, IT, NL CN 1875324 20061206 CN 2004-80031792 Α 200410 29 <--JP 4203767 B2 20090107 JP 2005-515179 200410

Z9

KR 2006116805 A 20061115 KR 2006-707986

200604

25

200410

<--

200604 28

PRAI JP 2003-370354 20031030 <--А WO 2004-JP16129 20041029

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT Disclosed is a compn. for forming an underlying film for lithog. which is used in a lithog, process in semiconductor device prodn. Also disclosed is an underlying film for lithog, which has a higher dry etching rate than a photoresist and does not cause intermixing with the photoresist. The compn. for forming an underlying film for lithog, contains a dextrin ester compd. wherein at least 50% of hydroxyl groups are transformed to ester groups, a crosslink-able

compd. and an org. solvent. ΤТ 9004-53-9D, Dextrin, acetoxylated

(compn. for forming underlying film contg. dextrin ester compd.)

RN 9004-53-9 HCA

CN Dextrin (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

IC ICM G03F007-11

ICS H01L021-027

74-5 (Radiation Chemistry, Photochemistry, and Photographic and CC Other Reprographic Processes) Section cross-reference(s): 76

ST compn underlying film dextrin ester photolithog

Photolithography TΤ

Semiconductor device fabrication

(compn. for forming underlying film contg. dextrin ester compd.) Coating materials

TΤ

(undercoatings; compn. for forming underlying film contg. dextrin ester compd.)

IΤ 9004-53-9D, Dextrin, acetoxylated

9004-53-9D, Dextrin, benzoated 17464-88-9,

Tetramethoxymethyl glycoluril

(compn. for forming underlying film contg. dextrin ester compd.)

CITED REFERENCES RE

(1) Hitachi Ltd; JP 62-62521 A 1987

- (2) Nissan Chemical Industries Ltd; WO 0205035 A1 2002 HCA
- (3) Nissan Chemical Industries Ltd; EP 1315045 A 2002 HCA
- (4) Nissan Chemical Industries Ltd; WO 2004061526 A1 2004 HCA
- (5) Shin-Etsu Chemical Co Ltd; JP 2002107938 A 2002 HCA
- (6) Shipley Co L L C; EP 1035442 A2 2000 HCA
- (7) Shipley Co L L C; JP 2000294504 A 2000 HCA

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(8) Shipley Co L L C; EP 1150343 A2 2002 CAPLUS
(9) Shipley Co L L C: JP 200247430 A 2002
OSC.G 1
            THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1
             CITINGS)
   ANSWER 4 OF 13 HCA COPYRIGHT 2009 ACS on STN
L47
AN
    140:2591 HCA Full-text
TΙ
    Peptide derivatives, and their use for the synthesis of
    silicon-based composite materials
    McAuliffe, Joseph C.; Bond, Risha Lindig; Cuevas, William A.
IN
    Dow Corning Corporation, USA; Genencor International, Inc.
PA
SO
    PCT Int. Appl., 52 pp.
    CODEN: PIXXD2
DT
    Patent
LA
    English
FAN.CNT 1
    PATENT NO.
                      KIND DATE
                                     APPLICATION NO.
                                                              DATE
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PΙ
    WO 2003099843
                       A2 20031204
                                        WO 2003-US15859
                                                                200305
                                                                20
                                               <--
    WO 2003099843
                        A3 20040701
            AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH,
            CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD,
            GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ,
            LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ,
            NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ,
            TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
        RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
            BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
            EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE,
            SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,
            NE. SN. TD. TG
    CA 2485169
                        A1 20031204 CA 2003-2485169
                                                                200305
                                                                20
                                               <--
    AU 2003233595
                     A1 20031212 AU 2003-233595
                                                                200305
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US 20040039179 A1 20040226 US 2003-441908

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200305

US 7361731 B2 20080422

EP 1551762 A2 20050713 EP 2003-729032

200305

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU,

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SK

US 20080182971 A1 20080731 US 2007-876258

200710

PRAI US 2002-381928P P 20020520 <--US 2003-441908 A1 20030520 <--WO 2003-US15859 W 20030520 <--

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
AB Methods for forming peptide derivs. using functional moieties and
peptide derivs. are provided. Further, methods for using peptide
derivs. to form silicon-based composite materials and silicon-based
composite materials formed thereby are provided. The silicon-based
composite materials may have features on the nanoscale, and the
materials may exhibit characteristics derived from the functional
moieties on the peptide derivs. It is emphasized that this abstr. is
provided to comply with the rules requiring an abstr. which will
allow a searcher or other reader to quickly ascertain the subject
matter of the tech. disclosure. It is submitted with the
understanding that is will not be used to interpret or limit the
scope or meaning of the claims.

IT 7585-39-9D,  $\beta$ -Cyclodextrin, carboxy Me ester derivs.

(peptide derivs., and their use for synthesis of silicon-based composite materials)

RN 7585-39-9 HCA

CN β-Cyclodextrin (CA INDEX NAME)

IC ICM C07K

CC 9-16 (Biochemical Methods)

IT Ink-jet printing Lithography

Hq

(peptide derivs., and their use for synthesis of silicon-based composite materials)

IT 52-90-4, Cysteine, analysis 56-45-1, L-Serine, analysis 56-85-9 L-Glutamine, analysis 56-87-1, L-Lysine, analysis 57-88-5, Cholesterol, analysis 58-85-5, D-Biotin 60-00-4, EDTA, analysis 60-18-4, L-Tyrosine, analysis 70-47-3, L-Asparagine, analysis 71-00-1, L-Histidine, analysis 72-19-5, L-Threonine, analysis 74-79-3, L-Arginine, analysis 75-77-4, Trimethylchlorosilane, analysis 98-13-5, Phenyltrichlorosilane 143-07-7, Lauric acid, analysis 149-74-6, Phenylmethyldichlorosilane 681-84-5,

Tetramethoxysilane 919-30-2, 3-Aminopropyltriethoxysilane 1112-39-6, Dimethyldimethoxysilane 1185-55-3, Methyltrimethoxysilane 3786-54-7, 1-Pyrenemethylamine 7585-39-9D, β-Cyclodextrin, carboxy Me ester 9014-01-1, Subtilisin 9073-60-3, β-Lactamase derivs. 10193-36-9, Orthosilicic acid 60239-22-7 64709-55-3, 1-Pyrene acetic acid 72088-94-9, 5(6)-Carboxyfluorescein 143413-47-2 380488-45-9 444084-12-2 444084-13-3 444084-14-4 444084-15-5444084-16-6 444084-17-7 444084-18-8 627529-62-8 627529-63-9 627529-64-0 627529-65-1 627529-66-2 627529-67-3 627529-68-4 627529-69-5 (peptide derivs., and their use for synthesis of silicon-based composite materials) RE CITED REFERENCES (1) Anon; WO 9732892 A1 HCA OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS) L47 ANSWER 5 OF 13 HCA COPYRIGHT 2009 ACS on STN AN 135:93032 HCA Full-text TI Manufacture and polymerization of acrylic monomer-cyclodextrin complexes as binders for lacquers and coatings IN Flosbach, Carmen: Gloeckner, Patrick: Klostermann, Peter: Paschmann, Volker; Ritter, Helmut PA E. I. Du Pont de Nemours & Co., USA SO PCT Int. Appl., 27 pp. CODEN: PIXXD2 DT Patent LA German FAN.CNT 1 PATENT NO. KIND DATE APPLICATION NO. DATE PI WO 2001049746 A1 20010712 WO 2000-EP12648 200012 13 <--AL, AU, BA, BG, BR, CA, CN, CZ, EE, HU, JP, KR, LT, LV, MX, NO, PL, RO, RU, SG, SI, SK, TR, UA, US, YU RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR DE 19963586 A1 20010712 DE 1999-19963586 199912 29

EP 1252197 A1 20021030 EP 2000-983310

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200012

EP	1252	197			В1	200	30730								
	R:		,			DK, ES						LU,	NL,	SE,	MC,
			ΙE,	SI,		LV, FI									
ΑT	2462	07			T	200	30815	A	T 2	000-	9833:	10			
														21	00012
														1.	3
										<					
PT	1252	197			T	200	31231	P	T 2	000-	9833	10			
														21	00012
														1:	3
										<					
ES	2200	980			Т3	200	40316	E	S 2	000-	9833	10			
														21	00012
														13	3
										<					
US	2003	0130	416		A1	200	30710	U	S 2	002-	1696	75			
														21	00207
														0	1

PRAI DE 1999-19963586 A 19991229 <--WO 2000-EP12648 W 20001213 <--

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT AB  $\,$  The binders for lacquers and coatings, esp. for powder coatings, are

manufd. by radical homopolymn. or copolymn. of H2O-insol. ethylenically unsatd. monomers, optionally together with H2O-sol. monomers. The homopolymn. or copolymn is carried out in an aq. medium in the presence of conventional polymn initiators, until polymers with an av. mol. wt. of 1000-1,000,000 are obtained. The polymn takes place in the presence of cyclodextrin or cyclodextrin derivs. and/or the H2O-insol. monomers are used in the form of complexes contg. cyclodextrin and/or cyclodextrin derivs. For example, adding isobornyl acrylate to aq. soln. of partially methylated  $\beta$ -cyclodextrin and exposing the mixt. to ultrasound gave a soln. of 1:1 monomer-cyclodextrin complex. Adding K2S2O8 and NaHSO3 to the soln. under N gave, after 12 h, 93% polymer free from the monomer complex.

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IT 7585-39-9DP,  $\beta$ -Cyclodextrin, methylated, compds. with (meth)acrylate esters, polymers

(manuf. and polymn. of acrylic monomer-cyclodextrin complexes as binders for lacquers and coatings)

RN 7585-39-9 HCA

CN  $\beta$ -Cyclodextrin (CA INDEX NAME)

$$\underset{\text{OH}}{\mathbb{A}}$$

IC ICM C08F002-24

ICS C08F251-00; C09D133-06

CC 35-4 (Chemistry of Synthetic High Polymers) Section cross-reference(s): 42

IT Coating materials

(manuf. and polymn. of acrylic monomer-cyclodextrin complexes as binders for lacquers and)

IT Coating materials

IT 80-62-6DP, Methyl methacrylate, compds. with  $\beta$ -cyclodextrin, polymers 97-88-1DP, Butyl methacrylate, compds. with  $\beta$ -cyclodextrin, polymers 100-42-5DP, Styrene, compds. with  $\beta$ -cyclodextrin, polymers 101-43-9DP, Cyclohexyl methacrylate,

compds. with  $\beta$ -cyclodextrin, polymers 106-91-2DP, Glycidyl methacrylate, compds. with  $\beta$ -cyclodextrin, polymers 141-32-2DP, Butyl acrylate, compds. with  $\beta$ -cyclodextrin, polymers 818-61-1DP, compds. with  $\beta$ -cyclodextrin, polymers 868-77-9DP, compds. with  $\beta$ -cyclodextrin, polymers 2210-25-5DP, N-Isopropylacrylamide, compds. with  $\beta$ -cyclodextrin, copolymers with styrene 5888-33-5DP, Isobornyl acrylate, compds. with  $\beta$ -cyclodextrin, polymers 7534-94-3DP, Isobornyl methacrylate, compds. with  $\beta$ -cyclodextrin, polymers 7585-39-9DP,  $\beta$ -Cyclodextrin, methylated, compds. with (meth)acrylate esters, polymers (manuf. and polymn. of acrylic monomer-cyclodextrin complexes as binders for lacquers and coatings)

- RE CITED REFERENCES
- (1) Basf; EP 0780401 A 1997 HCA
- (2) Basf; DE 19533269 A 1997 HCA
- (3) National Starch And Chem Investment Holding Corp; EP 0889058 A 1999 HCA
- (4) Rohm And Haas Co; EP 0710675 A 1996 HCA
- OSC.G 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)
- L47 ANSWER 6 OF 13 HCA COPYRIGHT 2009 ACS on STN
- AN 134:36501 HCA Full-text
- $\ensuremath{\text{TI}}$  Microsensors and nanoporous polymers for detection and removal organic compounds
- AU Li, DeOuan; Ma, Min
- CS Los Alamos National Laboratory, Los Alamos, NM, 87545, USA
- SO Chemical Sensors, Technical Digest of the International Meeting, 7th, Beijing, China, July 27-30, 1998 (1998), 44-46 Publisher: International Academic Publishers, Beijing, Peop. Rep. China.
  CODEN: 69AJWI
- CODEN: 09A
- DT Conference
- LA English
- Day 150

  By Cyclodextrin thin films were fabricated using either self-assembled monolayers (SAM) or sol-gel techniques. The resulting host receptor thin films on the substrates of surface acoustic wave (SAW) resonators were studied as a method of tracking org. toxins in vapor phase. Monolayer cyclodextrin coatings on 200 MHz SAW devices yielded ppm sensitivity while thicker sol-gel coatings gave responses indicating middle-ppb-sensitivity (.apprx.50 ppb) for those sensor-host-receptors and org.-toxin pairs with optimum mutual matching of polarity, size, and structural properties. Also, the cyclodextrin polymers are efficient in removing orgs. from water down to ppb

levels; which rendered these polymers having great potential for advanced water purifn.  $\hspace{-0.1cm}$ 

IT 7585-39-9,  $\beta$ -Cyclodextrin (benzoation of)

RN 7585-39-9 HCA

RN /585-39-9 HCA

CN  $\beta$ -Cyclodextrin (CA INDEX NAME)

Absolute stereochemistry.

CC 80-2 (Organic Analytical Chemistry)
Section cross-reference(s): 61

IT Coating process

(sol-gel; cyclodextrin thin film for SAW sensors for detection of org. vapors)  $\,$ 

- IΤ 7585-39-9, β-Cyclodextrin (benzoation of)
- RE CITED REFERENCES
- (1) Boger, J; Helvetica Chimica Acta 1978, V61, P2190 HCA
- (2) Campbell, C; Surface Acoustic Wave Devices and Their Signal Processing Applications 1989
- (3) Cornell, F; Proc Natl Symp on Measuring and Interpreting VOCs is Soil:State of the Art and Research Needs 1993
- (4) Cramer, F; J Am Chem Soc 1967, V89, P14 HCA
- (5) Dickert, F; Adv Mater 1991, V3, P436 HCA
- (6) Feldmann, M; Surface Acoustic Wave for Signal Processing 1989
- (7) Grate, J; Anal Chem 1988, V60(17), P869
- (8) Grate, J; Anal Chem 1991, V63(17), P1719 HCA
- (9) Grate, J; Anal Chem 1992, V64, P610 HCA
- (10) Harata, K; Bull Chem Soc Jpn 1975, V48, P2049
- (11) Henricks, A; The Cost Effectiveness of Field Screening for VOCs, Emerging Technology Symposium 1993
- (12) Li, D; Langmiur 1993, V9(12), P3341 HCA
- (13) Moore, L; Adv Mater 1995, V7, P729 HCA
- (14) Takeo, K; J Carbohydrate Chem 1988, V7(2), P293 HCA
- (15) Teiichi, M; Chem Express 1989, V4, P645
- L47 ANSWER 7 OF 13 HCA COPYRIGHT 2009 ACS on STN AN 127:249612 HCA Full-text
- OREF 127:48765a,48768a
- TT Paper and paperboard coated or laminated with films that trap environmental contaminants for food packaging
- IN Wood, Willard E.; Beaverson, Neil J.
- PA Cellresin Technologies, Llc, USA
- SO PCT Int. Appl., 73 pp. CODEN: PIXXD2
- DT Patent
- LA English FAN.CNT 6

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PΙ	WO 9733044	A1	19970912	WO 1997-US2580	

199702 20

W: BR, CA, CN, JP, KR, MX, SG RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT. SE

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US 5776842 A 19980707 US 1996-603337

199602

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Ţ	JS	58825	565			A		1999	0316	Ţ	JS 1	997-	8619	04			
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F	HK	10173	398			A1		2002	0830	F	łK 1	999-	1023	05			
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PRAI U	IS	1996-	-6033	337		Α		1996	0220	<	_						
		1994-				A2			0623								
		1995-				A1			1211								
		1996-				В1			1122								
		1997-				W			0220								
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trimethylsilyl ether. IT 113573-77-6,  $\beta$ -Cyclodextrin acetate

(paper and paperboard coated or laminated with films contg. cyclodextrin derivs. that trap environmental contaminants for food packaging)

film was based on LLDPE and contained 0.5%  $\beta$ -cyclodextrin

RN 113573-77-6 HCA

CN  $\beta$ -Cyclodextrin, acetate (CA INDEX NAME)

CM 1

CRN 7585-39-9 CMF C42 H70 O35

## Absolute stereochemistry.

CM 2

CRN 64-19-7 CMF C2 H4 O2

- IC ICM D21H027-10 ICS D21H019-24
- CC 43-9 (Cellulose, Lignin, Paper, and Other Wood Products) Section cross-reference(s): 17
- ΙT Coating materials

Food

(paper and paperboard coated or laminated with films contg. cyclodextrin derivs. that trap environmental contaminants for food packaging)

ΙT 113573-77-6,  $\beta$ -Cyclodextrin acetate

(paper and paperboard coated or laminated with films contg. cyclodextrin derivs. that trap environmental contaminants for food packaging)

CITED REFERENCES

- (1) Anon; EP 0454910 A1 HCA
- (2) Anon; DE 19520989 A1 HCA
- (3) Anon; US 4357468 A HCA
- THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 OSC.G 3 CITINGS)
- L47 ANSWER 8 OF 13 HCA COPYRIGHT 2009 ACS on STN
- 126:76193 HCA Full-text AN
- OREF 126:14727a,14730a
- TΙ Use of inclusion compounds of cyclic polysaccharides as charge control agents
- Baur, Ruediger; Macholdt, Hans-Tobias IN
- PA Hoechst A .- G., Germany
- SO Eur. Pat. Appl., 28 pp.
  - CODEN: EPXXDW
- Patent DT LA German

FAN	CNT	1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 742230	A2	19961113	EP 1996-107060	
					199605
					0.6

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EP 742230 A3 19971001

R: BE, CH, DE	, FR, GE	, IT, LI, NL 19961114 DE 1995	-19517034
22 13017001	111	13301111 22 1330	199505 10
		<-	_
CA 2176398	A1	19961111 CA 1996	-2176398
			199605 09
		<-	_
JP 08325305	A	19961210 JP 1996	-115127
			199605
			09
		<-	_
US 5800602	A	19980901 US 1996	-647067
			199605 09
		<b>/</b> -	_

PRAI DE 1995-19517034 A 19950510 <--

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OS MARPAT 126:76193

AB Inclusion compds. of cyclic polysaccharides are useful for controlling charges in electrophotog, toners and developers, triboelec, and electrokinetic sprayable powders and powd. varnishes, and electrets. A typical inclusion compd. was manufd. by heating 60 mL water contg. 0.84 g LiCl and 12.9 g  $\gamma$ -cyclodextrin at 30-100° until a clear soln. was obtained, removing the water in vacuo at 30-100°.

### TT 160433-81-8

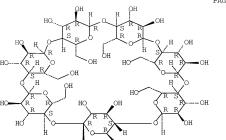
(inclusion compds. of cyclic polysaccharides as charge control agents in electrophotog. toners and powd. varnishes)

RN 160433-81-8 HCA

CN  $\beta$ -Cyclodextrin, compd. with sodium acetate (9CI) (CA INDEX NAME)

CM 1

CRN 7585-39-9 CMF C42 H70 O35



Na

- IC ICM C08B037-16
- ICS G03G009-097; C09D005-03
- CC 42-5 (Coatings, Inks, and Related Products)
  Section cross-reference(s): 74
- IT Coating materials
- (powder, triboelec.; inclusion compds. of cyclic polysaccharides as charge control agents in electrophotog. toners and powd. varnishes.
- ΙT 7585-39-9D,  $\beta$ -Cyclodextrin, inclusion compds. with quaternary ammonium salts 17465-86-0D, y-Cyclodextrin, inclusion compds. with quaternary ammonium salts 33999-35-8 34003-97-9 126306-73-8 152195-65-8 160433-81-8 51128-12-2 184717-41-7 184717-42-8 184717-43-9 184717-44-0 184717-45-1 184717-46-2 184717-47-3 184717-48-4 184717-50-8 184717-51-9 184717-52-0 184717-53-1 184717-54-2 184717-55-3 184717-57-5 184717-58-6 184717-59-7 184717-60-0 184717-61-1 184717-62-2 184717-63-3 184717-64-4 184717-65-5 184717-66-6 184717-67-7 184717-68-8 184717-69-9 184717-70-2 184717-71-3 184717-72-4 184717-73-5 184717-74-6 184717-75-7 184717-76-8 184717-77-9 184717-78-0 184717-79-1 184717-80-4 184717-81-5 184717-82-6 184717-83-7 184717-84-8 184717-85-9 184717-86-0 184717-87-1 184717-88-2 184717-89-3 184717-90-6 184717-91-7 184717-92-8 184717-93-9 184717-94-0 184717-95-1 184717-96-2 184717-97-3

(inclusion compds. of cyclic polysaccharides as charge control agents in electrophotog. toners and powd. varnishes)

L47 ANSWER 9 OF 13 HCA COPYRIGHT 2009 ACS on STN

185322-54-7

- AN 125:88155 HCA Full-text
- OREF 125:16633a,16636a

184717-98-4

- TI Redispersible powdered polymers containing cyclodextrins or their derivatives
- IN Figge, Reiner; Haas, Wolfgang
- PA Wacker-Chemie GmbH, Germany
- SO Ger. Offen., 14 pp.
  - CODEN: GWXXBX
- DT Patent
- LA German

I PHV	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 4440236	A1	19960515	DE 1994-4440236	

199411

CA	2203408		A1	19960523	CA 1995-2203408	199511 09
WO	9615187		A1	19960523	< WO 1995-EP4412	199511 09
					<	
		CN, FI, BE, CH,			GB, GR, IE, IT, LU,	MC, NL, PT,
EP	791033		A1	19970827	EP 1995-939247	199511 09
					<	
EP	791033			19980701	IT, LI, NL, SE	
CN	1162969				CN 1995-196161	
						199511 09
					<	
	1078899 09511782		C T		JP 1995-515716	
UF	09311762		1	19971123	0F 1993-313716	199511 09
					<	
	2942935 167889		B2 T	19990830	AT 1995-939247	
AI	10/009		1	19900713	A1 1993-939247	199511 09
					<	
ES	2119496		T3	19981001	ES 1995-939247	199511 09
					<	
US	5777003		A	19980707	US 1997-809386	199703 19
					<	
NO	9702148		A	19970509	NO 1997-2148	199705 09
					<	
FI	9701983		A	19970610	FI 1997-1983	1 <b>9</b> 9705

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PRAI DE 1994-4440236 A 19941110 <--WO 1995-EP4412 W 19951109 <--

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

The title compns., with as narrow a range of compns. as possible, contain cyclodextrins or their alkyl, hydroxyalkyl, and/or carboxyalkyl derivs. of specified structure as protective colloids. Redox polymn. of 30% acrylamide 3.69, styrene 16.6, and Bu acrylate 16.6 kg in the presence of 1.85 kg cyclodextrin gave a 44.5% emulsion (pH 3.7) of copolymer with av. particle size 350 nm, contg. almost no coarse particles. The use of this emulsion in the prepn. of redispersible powders is exemplified.

IT 28986-04-1, β-Cyclodextrin monoacetate

(dispersant; redispersible powd. polymers contg. cyclodextrins or their derivs.)

PAGE 1-A

RN 28986-04-1 HCA

CN  $\beta$ -Cyclodextrin, monoacetate (9CI) (CA INDEX NAME)

CM I

CRN 7585-39-9 CMF C42 H70 O35

CM 2

CRN 64-19-7 CMF C2 H4 O2

IC ICM C08L057-00

ICS C08L005-16; C08J003-12; C08F002-22; C04B024-38; C08F002-44; C08F006-14; C09D157-00; C09D005-34; C09D007-12

ICI C08L057-00, C08L033-06, C08L031-02, C08L027-00, C08L025-00, C08L023-02; C09J157-00, C09J105-16; C09D157-00, C09D133-06

CC 37-6 (Plastics Manufacture and Processing) Section cross-reference(s): 44

IΤ Adhesives

Binding materials

Coating materials

Mortar

(redispersible powd. polymers contg. cyclodextrins or their derivs. for use in)

ΙT 7585-39-9,  $\beta$ -Cyclodextrin 7585-39-9D,  $\beta$ -Cyclodextrin, Me and hydroxypropyl and carboxymethyl ethers 10016-20-3,

α-Cvclodextrin 17465-86-0, y-Cvclodextrin

28986-04-1, B-Cyclodextrin monoacetate

(dispersant; redispersible powd. polymers contq. cyclodextrins or their derivs.)

OSC.G THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)

L47 ANSWER 10 OF 13 HCA COPYRIGHT 2009 ACS on STN 124:59731 HCA Full-text AN

OREF 124:11201a,11204a

TI Partially acylated  $\beta$ -cyclodextrins.

IN Hirsenkorn, Rolf

PA Consortium fuer Elektrochemische Industrie GmbH, Germany

SO Eur. Pat. Appl., 12 pp.

CODEN: EPXXDW

DT Patent

LA German

FAN.	CNT 1 PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 678525	A1	19951025	EP 1995-105907	199504
				<	20
	EP 678525 R: BE, DE, FR,				
	DE 4414128			DE 1994-4414128	199404
				<	22
	CA 2147224	Al	19951023	CA 1995-2147224	199504
				<	18
	CA 2147224	C	20020702		
	US 5633368	A	19970527	US 1995-423887	199504 18
				<	
	JP 07300501	А	19951114	JP 1995-97278	199504 21
	0584664			<	
	JP 2574664 CN 1112129	A A	19970122 19951122	CN 1995-104760	
					199504 22
				<	
PRAI	CN 1088716 DE 1994-4414128		20020807 19940422		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OS MARPAT 124:59731

AB Partially acylated  $\beta$ -cyclodextrins, prepd. by the reaction of  $\beta$ -cyclodextrin (I) with an acylating agent in the presence of a basic catalyst, are useful for solubilization of difficultly water-sol.

compds., e.g. steroids; as formulation aids in pharmaceutical, cosmetic, and agrochem. products; for stabilization of light-, heat-, or oxidn.—sensitive materials; for de-greasing and cleaning of desired surfaces; for substitution of org. solvents, esp. in sepn. and extn. of substances from lipophilic media; as auxiliaries, esp. in the coating and(or) adhesion adjustment in the paper, leather, and textile industries; as phase-transfer catalysts; or for flavor and odor masking. Thus, I and Na acetate were suspended in acetic acid and heated to 105°; then acetic anhydride was slowly added dropwise during 1 h. The mixt. was heated at reflux until it dissolved (after .apprx.14 h) and cooled to room temp. to give acety1- $\beta$ -cyclodextrin. 99490-09-2p 113573-77-66

(partially acylated  $\beta\text{-cyclodextrins}$  as solubilizers and solvents and stabilizers)

RN 99490-09-2 HCA

CN β-Cyclodextrin, propanoate (9CI) (CA INDEX NAME)

CM :

ΤТ

CRN 7585-39-9 CMF C42 H70 035

RN 113573-77-6 HCA

CN  $\beta$ -Cyclodextrin, acetate (CA INDEX NAME)

CM 1

CRN 7585-39-9

CMF C42 H70 O35

PAGE 1-A

CM 2

CRN 64-19-7 CMF C2 H4 O2

IC ICM C08B037-16

CC 44-6 (Industrial Carbohydrates) IT 7585-39-9DP, β-Cyclodextrin, acylated 99490-09-2P 113573-77-6P

(partially acylated  $\beta$ -cyclodextrins as solubilizers and solvents and stabilizers)

OSC.G 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

L47 ANSWER 11 OF 13 HCA COPYRIGHT 2009 ACS on STN

AN 108:152240 HCA Full-text

OREF 108:24997a,25000a

TI Persistent fragrant and insect repellent coatings for buildings

IN Zhu, Yuanzheng

PA Peop. Rep. China

SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 4 pp. CODEN: CNXXEV

DT Patent

LA Chinese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	CN 85102849	A	19860716	CN 1985-102849	198504

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01

PRAI CN 1985-102849

19850401 <--

AB The title coating materials contain oligosaccharide-insecticide inclusion compds. and microencapsulated perfumes. A coating material contained an oligosaccharide-insecticide inclusion compd. 0.25, microencapsulated perfumes 0.5, Zn stearate 3, aq. 801 building glue (solids 8-10%) 100, Ti white (Al01, Al02) 4, lithopone (28-30% ZnS) 10, light CaCO3 300, talc 13, pigments 1-10 parts, nonionic surfactants, water, and urea.

IT 7585-39-9D, inclusion compds. with chrysanthemic acid

(insecticides, coatings contg. microencapsulated perfumes and)

RN 7585-39-9 HCA

CN β-Cyclodextrin (CA INDEX NAME)

$$\underset{\text{OH}}{ \text{ }}$$

IC ICM C09D005-00

CC 42-10 (Coatings, Inks, and Related Products)

Section cross-reference(s): 5, 40

IT Coating materials

(contg.  $\beta\text{-cyclodextrin-insecticide}$  inclusion compds. and microencapsulated perfumes, for buildings)

IT 7585-39-9D, inclusion compds with chrysanthemic acid esters 10453-89-1D, esters, inclusion compds with cyclodextrin 90052-68-9

(insecticides, coatings contg. microencapsulated perfumes and)

L47 ANSWER 12 OF 13 HCA COPYRIGHT 2009 ACS on STN AN 88:171957 HCA Full-text OREF 88:27095a.27098a

TI Aqueous compositions containing starch ester dispersants

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IN
   Glowaky, Raymond Charles; Rudolph, Stephen Edward; Bierwagen, Gordon
    Paul
```

PA Sherwin-Williams Co., USA

SO U.S., 12 pp. CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1 KIND DATE APPLICATION NO. DATE PATENT NO. ----PI US 4061611 A 19771206 US 1976-725604 197609

22

PRAT IIS 1976-725604

19760922 <--

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AB Low-mol.-wt. hydrolyzed starch having a plurality of anhydroglucose units or a deriv. of this starch is esterified by  $\geq 0.5$ mols./anhydroglucose unit of acylating agent consisting of 0.1-2.9 mols. ≥1 polycarboxylic acid anhydride and 0.1-2.9 mols. ≥1 monocarboxylic acid anhydride to give dispersing agents useful in replacing dispersing agents derived from petrochem. for water-based paints. Thus, 500 parts propionic anhydride [123-62-6] was added in 2 h at 180°F to 400 parts C5H5N soln, contq. 250 parts com. hydrolyzed waxy maize starch (dextrose equiv. 5-6, ester substitution <0.1), and the reaction mixt. was heated an addnl. 2 h at 180°F to give an intermediate mixt., to which 77 parts succinic anhydride [108-30-5] was added in 30 min, and the reaction mixt. was heated an addnl. 2 h at 180°F to give starch propionate succinate (I) [62655-92-91. Gloss house paint contq. I as dispersant gave coatings with similar phys. properties to the same paint contq. Tamol 731 as dispersant.

62655-70-3P ΙT

RN

(manuf. of, for dispersing agents for water-based paints) 62655-70-3 HCA

CN Dextrin, acetate hydrogen 1,2-cyclohexanedicarboxylate (9CI) (CA INDEX NAME)

CM 1

CRN 9004-53-9

CMF Unspecified

CCI PMS, MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM

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CRN 1687-30-5
CMF C8 H12 O4
```

CM 3

CRN 64-19-7 CMF C2 H4 O2

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IC C08L003-06
```

INCL 260017400ST

CC 42-7 (Coatings, Inks, and Related Products)
Section cross-reference(s): 44, 46

IT Coating materials

(water-thinned paints, dispersing agent for, starch diacid monoacid mixed esters as)

IT 61869-77-0P **62655-70-3P** 62655-87-2P 62655-88-3P

62655-91-8P 65547-38-8P (manuf. of, for dispersing agents for water-based paints)

(manuf. of, for dispersing agents for water-based paints)
OSC.G 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (7
CITINGS)

L47 ANSWER 13 OF 13 HCA COPYRIGHT 2009 ACS on STN

AN 86:141971 HCA Full-text

OREF 86:22299a,22302a TI Mixed starch esters

IN Rudolph, Stephen E.; Glowaky, Raymond C.

PA Sherwin-Williams Co., USA

SO Ger. Offen., 59 pp.

CODEN: GWXXBX

DT Patent

LA German FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	DE 2639349	A1	19770303	DE 1976-2639349	
					197609 01
				<	
	US 4011392	A	19770308	US 1975-609327	
					197509 02
	CA 1042879	A1	19781121	< CA 1976-252742	
	CA 1042079	AI	19/01121	CA 1976-232742	197605
					18
				<	
	JP 52029884	A	19770307	JP 1976-94576	
					197608 10
				<	10
	FR 2322872	A1	19770401	FR 1976-26120	
					197608
					30
	GB 1562302	А	19800312	< GB 1976-36505	
	GD 1302302	А	13000312	GD 1970-30303	197609
					02
				<	

PRAI US 1975-609327

19750902 <--

Α Reacting hydrolyzed starch (I) [9005-25-8] or dextrin with mono- and AB polycarboxylic anhydrides in the presence of pyridine (II) or DMF gave I esters for use in coating. Thus, a mixt. of I 194.8, H2O 5.2, Ac20 262.2, succinic anhydride 77.7 and II 200.0 parts was stirred for total .apprx.5 h at 82° to give hydrolyzed starch acetate succinate (III) with 2.5 total substitution degree (SD). Applying a mixt., having 20% pigment vol. concn. of neutralized III (total SD 2.19) contq. 30% aminoplast in H2O-butylcellosolve (80:20) on a substrate gave a coating with 8 H pencil hardness which showed insignificant blister formation after 24 h immersion in H2O. 62655-70-3P

IΤ

(prepn. of) 62655-70-3 HCA

RN CN

Dextrin, acetate hydrogen 1,2-cyclohexanedicarboxylate (9CI) (CA INDEX NAME)

CM 7

CRN 9004-53-9

```
CMF Unspecified
CCI PMS, MAN
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
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CM 2

CRN 1687-30-5 CMF C8 H12 O4

CM 3

CRN 64-19-7 CMF C2 H4 O2

TC C08B031-04

CC 44-5 (Industrial Carbohydrates)

IT Coating materials

(hydrolyzed starch esters contg. hydroxymethylated melamine)

IT 62655-70-3P

(prepn. of)

OSC.G 11 THERE ARE 11 CAPLUS RECORDS THAT CITE THIS RECORD (11 CITINGS)

=> D L48 1-6 TI

L48 ANSWER 1 OF 6 HCA COPYRIGHT 2009 ACS on STN

TI Composition comprising dextrinsulfate for the treatment of sexual transmitted diseases

L48 ANSWER 2 OF 6 HCA COPYRIGHT 2009 ACS on STN

- TΙ Water-repellent cosmetics with good emulsion stability containing triglycerin-modified silicones and salts
- L48 ANSWER 3 OF 6 HCA COPYRIGHT 2009 ACS on STN
- TΙ Use of cyclodextrin derivatives for skin preparations, etc., their micelles or nanoparticles, and compositions containing the derivatives
- L48 ANSWER 4 OF 6 HCA COPYRIGHT 2009 ACS on STN
- TΙ Manufacture of ester-crosslinked chitosan hydrogels as support material and quaternized, cyclodextrin-modified chitosan
- L48 ANSWER 5 OF 6 HCA COPYRIGHT 2009 ACS on STN
- TΙ Complexes of insoluble cyclodextrin polymers
- L48 ANSWER 6 OF 6 HCA COPYRIGHT 2009 ACS on STN
- TΙ Semisolid compositions containing cyclic silicones for pharmaceutical ointments and cosmetic creams

### => D L48 3 BIB ABS HITSTR HITIND RE

- L48 ANSWER 3 OF 6 HCA COPYRIGHT 2009 ACS on STN
- 135:376708 HCA Full-text AN
- Use of cyclodextrin derivatives for skin preparations, etc., their TI micelles or nanoparticles, and compositions containing the derivatives
- Eric, Perrier; Nicholas, Terry; Rival, Delphine; Coleman, Anthony IN
- PA Coletica, Fr.
- SO Jpn. Kokai Tokkyo Koho, 26 pp.
- CODEN: JKXXAF
- DT Patent
- LA Japanese

FAN.	CNT 1				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PΙ	JP 2001323002	A	20011120	JP 2000-222967	
					200007
					24
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	JP 3582583	B2	20041027		
	FR 2808691	A1	20011116	FR 2000-6102	
					200005
					12

FR GB	2808691 2362102	B1 A	20050624 20011114	GB	2000-16653	200007 06
					<	
	2362102	В	20021218			
US	6524595	B1	20030225	US	2000-613773	
						200007 11
					<	
DE	10033990	A1	20011122	DE	2000-10033990	
						200007 13
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DE	10033990	B4	20071227			
US	20030152602	A1	20030814	US	2002-318903	
						200212 13
					<	

PRAI FR 2000-6102 A 20000512 <--US 2000-613773 A3 20000711 <--

US 2000-613773 A3 20000711 <-ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
AB Cyclodextrin in which OH groups are substituted with OCOR or NR1R2 [R, Rl, R2 = C1-30, preferably C2-22 chain or cyclic (un)satd. (hydroxy)hydrocarbyl], are useful as tissue penetration promoters for cosmetics and drugs, etc. The cyclodextrin derivs. may form micelles or nanoparticles, in which active components are enclosed. Also claimed are compns. contg. the derivs. and vehicles, esp. phospholipids such as lecithins, surfactants, or cationic lipids, and method for skin-care method by applying the cyclodextrin derivs. to body including face.  $\beta$ -Cyclodextrin laurate (no. of laurate residue is 6-10, prepn. given) was dissolved in acetone and the soln. was gradually added to H2O to give milky white soln. Acetone was evapd. from the soln. and the residue was redispersed in H2O to give nanoparticles having av. particle size 212 nm  $\pm$  5 nm.

IT 7585-39-9DP,  $\beta$ -Cyclodextrin, alkyloyl esters

(prepn. of cyclodextrin esters or amino derivs. capable of forming micelles or nanoparticles for drugs, cosmetics, and food)

RN 7585-39-9 HCA

CN  $\beta$ -Cyclodextrin (CA INDEX NAME)

$$\underset{\mathrm{OH}}{\mathbb{A}}$$

IT 7585-39-9,  $\beta$ -Cyclodextrin

(prepn. of cyclodextrin esters or amino derivs. capable of forming micelles or nanoparticles for drugs, cosmetics, and food)

RN 7585-39-9 HCA

CN  $\beta$ -Cyclodextrin (CA INDEX NAME)

IC ICM C08B037-16 ICS A61K007-00; A61K007-025; A61K007-

ICS A61K007-00; A61K007-025; A61K007-032; A61K007-075; A61K009-10; A61K047-40

CC 63-5 (Pharmaceuticals)

Section cross-reference(s): 17, 62

IT 9003-01-4D, Polyacrylic acid, crosslinked products with allyl ethers of pentaerythritol or sucrose or both (gel carrier; prepn. of cyclodextrin esters or amino derivs. capable of forming micelles or nanoparticles for drugs, cosmetics, and food)

IT 79-04-9DP, reaction products with  $\beta$ -cyclodextrin laurate 4755-77-5DP, reaction products with  $\beta$ -cyclodextrin laurate 7585-39-9DP,  $\beta$ -Cyclodextrin, alkyloyl esters 7693-46-1DP, reaction products with  $\beta$ -cyclodextrin laurate

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374690-20-7P 374690-21-8P 374690-22-9DP, reaction products with
β-cyclodextrin laurate 374690-23-0DP, reaction products with
B-cvclodextrin laurate 374690-24-1P
   (prepn. of cyclodextrin esters or amino derivs. capable
   of forming micelles or nanoparticles for drugs, cosmetics, and
   food)
79-37-8, Oxalyl chloride 79-37-8D, Oxalic acid chloride, reaction
products with \beta-cyclodextrin laurate 107-15-3,
Ethylenediamine, reactions 110-15-6D, Butanedioic acid, reaction
products with β-cyclodextrin laurate, reactions 2050-92-2
4755-77-5, Ethyl oxalyl chloride 7585-39-9,
β-Cyclodextrin
                7693-46-1, 4-Nitrophenyl chloroformate
15181-48-3D, Chlorosulfate, reaction products with
B-cvclodextrin laurate
                        30754-23-5.
Heptakis(6-deoxy-6-iodo)-β-cyclodextrin 74426-35-0
   (prepn. of cyclodextrin esters or amino derivs. capable
   of forming micelles or nanoparticles for drugs, cosmetics, and
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THERE ARE 9 CAPLUS RECORDS THAT CITE THIS RECORD (9)

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